

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended). A static lamination micro-mixer for mixing, dispersing, emulsifying or suspending at least a first fluid phase and a second two-fluid phase, comprising at least one first feed channel adapted to receive the first fluid phase and at least one second feed channel adapted to receive the second fluid phase, at least one slotted plate having at least one first slot opening and at least one second slot opening completely penetrating the at least one slotted plateopenings and an aperture plate having at least one aperture slot slots-arranged above the at least one first slot opening and the at least one second slot opening of the at least one slotted plateformer, wherein the at least one aperture slot of the aperture plate forms a whose slots are produced as continuous opening between the at least one first and the at least one second slot openings of the at least one slotted plate, wherein the at least one first slot opening of the at least one slotted plate overlaps the first feed channel and the at least one second slot opening of the at least one slotted plate overlaps the second feed channelopenings.

Claim 2 (currently amended). Micro-mixer according to Claim 1, wherein the at least one number of slot openings in the slotted plate comprises additional slot openings and/or the number of aperture slots in the aperture plate comprises additional aperture slots is greater than one.

Claim 3 (canceled).

Claim 4 (currently amended). Micro-mixer according to claim 1, wherein the at least one first and the at least one second slot openings in the at least one slotted plate are configured so arranged in relation to one another in such a way that the

first and second fluid phases enter the at least one aperture slot slot opening of the an aperture plate or an additional slotted plate located above.

Claim 5 (currently amended). Micro-mixer according to claim 1, wherein the continuous opening of the at least one aperture slot of the aperture plate overlaps the at least one first and the at least one second slot openings in the at least one slotted plate, wherein the first and second fluid phases come into contact with one another in the continuous opening of the at least one aperture slot openings of the aperture plate.

Claim 6 (canceled).

Claim 7 (currently amended). Micro-mixer according to claim 1, wherein the at least one first and the at least one second slot openings in the at least one slotted plate are arranged obliquely in relation to one another.

Claim 8 (currently amended). Micro-mixer according to claim 1, wherein a top view the cross-section of the at least one first and the at least one second slot openings in the at least one slotted plate is configured in the shape of a funnel or lobe.

Claim 9 (currently amended). Micro-mixer according to claim 1, further comprising wherein a plurality of additional slotted plates located adjacent to the at least one slotted plate and/or a plurality of additional aperture plates located adjacent to the aperture plate, wherein the pluralities of additional slotted plates and/or additional aperture plates are arranged directly above one another or offset with respect in relation to one another.

Claim 10 (currently amended). Micro-mixer according to claim 211, further comprising a plurality of support structures fitted to the housing are applied to the slotted plates or are machined out of the plates.

Claim 11 (canceled).

Claim 12 (currently amended). Micro-mixer according to claim 1, further comprising
wherein a mixing chamber is fitted above the aperture plate.

Claim 13 (currently amended). Micro-mixer according to claim 1, further comprising
additional wherein the aperture slots in the aperture plate, wherein the additional
aperture slots are offset parallel to one another and/or are arranged in a periodic
pattern with respect in relation to one another.

Claim 14 (currently amended). Micro-mixer according to claim 1, wherein the at least
one first and the at least one second slot openings in the at least one slotted
plate and the at least one aperture slot slots in the aperture plate are arranged at
an any desired angle with respect to one another, optionally rotated through 90°.

Claim 15 (currently amended). Micro-mixer according to claim 1, wherein the at least
one first and the at least second slot openings in the at least one slotted plate
and the at least one aperture slot slots in the aperture plate have a width of less
than 500 µm.

Claim 16 (currently amended). Micro-mixer according to claim 1, wherein the at least
one slotted and aperture plates are formed, partly or completely, of metal, glass,
ceramic or plastic or of a combination of these materials.

Claim 17 (canceled).

Claim 18 (currently amended). Micro-mixer according to claim 1, wherein the at least
one slotted and aperture plates comprise a stack of micro-structured thin plates.

Claim 19 (previously presented). Micro-mixer according to Claim 18, wherein the thin micro-structured plates are connected materially by means of soldering, welding, diffusion welding or adhesive bonding or with a force fit by means of screwing, pressing or riveting.

Claim 20 (currently amended). Micro-mixer according to claim 1, wherein the at least one aperture slot slots in the aperture plate plates and the at least one first and the at least one second slot openings in the at least one slotted plate slotting plates are of branched configuration.

Claim 21 (previously presented). Micro-mixer according to claim 1, wherein the micro-mixer is accommodated in a housing.

Claim 22 (currently amended). Micro-mixer according to claim 21, wherein the housing contains the at least one first and second feed channels which promote spatial distribution of the first and second fluid phases.

Claim 23 (currently amended). Micro-mixer according to claim 22, wherein the at least one first and second feed channels are arranged offset parallel from one another, radially, concentrically or behind one another in order to distribute the first and second fluid phases fluids in the housing.

Claim 24 (currently amended). Micro-mixer according to claim 22, wherein the at least one first and second feed channels are designed with constant or variable cross sections in order to distribute the first and second fluid phases fluids in the housing.

Claim 25 (currently amended). Method for mixing, dispersing, emulsifying or suspending at least first and second two-fluid phases, which comprises:

leading the first said fluid phase from phases through a first feed channel
through at least one first slot opening of at least one slotted plate having slot and
into at least one aperture slot in an aperture plate openings and

leading the second fluid phase from a second feed channel through at
least one second slot opening of the at least one slotted plate and into the at
least one aperture slot in the aperture plate, wherein the at least one first and the
at least one second slot openings completely penetrate the at least one slotted
plate, wherein the at least one aperture slot in the aperture plate forms slots of
which are in the form of a continuous opening between the at least one first and
the at least one second slot openings of the at least one slotted plate openings,
and further wherein the at least one slotted plate is located between the an
aperture plate and the first and second feed channels having aperture slots
arranged above the former.

Claim 26 (currently amended). The Micro-mixer of claim 15, wherein the said width is
less than 10 μm.

Claim 27 (currently amended). The method Micro-mixer of claim 2517, further
comprising:

producing the at least one wherein said slotted plate and/or and the
aperture plate plates are produced by punching, embossing, milling, erosion,
etching, plasma etching, laser cutting or a the LIGA technique.

Claim 28 (new). Micro-mixer of claim 1, wherein the at least one aperture slot of the
aperture plate is located between the at least one first and the at least one
second slot openings of the at least one slotted plate.

Claim 29 (new). Micro-mixer of claim 14, wherein the angle is up to 90°.